

U.S. Application No. 10/089,430
 Reply to Office Action dated June 27, 2006

PATENT
 450108-03399

IN THE SPECIFICATION

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AUG 28 2006

Please amend paragraph 3 on page 6 as follows.

At this point, when the dynamic range of class tap is taken to be DR; the bit allocation is taken to be m, the data ~~level~~ value of each class tap to be L; and the quantization code is taken to be Q, the ADRC circuit conducts the quantization by evenly dividing data between the maximum value MAX and the minimum value MIN into areas by the specified bit length, according to the following EQUATION (1).

Please amend Equation 4 on page 12 (paragraph 5) as follows.

~~$$W[k] = 0.54 + 0.46 \cos(\pi * k / N) \quad (k = 0, \dots, N-1) \quad \dots (4)$$~~

$$w[k] = 0.54 - 0.46 \cos\left(2\pi \frac{k}{n}\right), \quad [k = 0, \dots, n-1] \quad (4)$$

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Please replace Equation 10 on page 26 (paragraph 9) as follows.

$$\frac{\partial e^2}{\partial w_i} = \sum_{k=0}^M 2 \left[\frac{\partial e_k}{\partial w_i} \right] e_k = \sum_{k=0}^M 2 x_{ki} \cdot e_k = \sum_{k=0}^M 2 x_{ki} \cdot e_k$$

(i = 1, 2, ... n)

... (10)

$$\frac{\partial e^2}{\partial w_i} = \sum_{k=0}^M 2 \left[\frac{\partial e_k}{\partial w_i} \right] e_k = \sum_{k=0}^M 2 x_{ki} \cdot e_k$$

(i = 1, 2, ... n)

... (10)

Please amend paragraph 3 on page 28 as follows.

Accordingly, in the learning circuit 30, the student signal generating filter 37 conducts the thinning processing of teacher audio data with high sound quality, ~~taking the interpolation processing in the audio signal processing device 10 into consideration, thereby~~ obtaining the prediction coefficients for the ~~interpolation~~ digital audio processing in the audio signal processing device 10.